8-1 Practice

Monomials and Factoring

Find the factors of each number. Then classify each number as *prime or composite*.

1. 18 **1, 2, 3, 6, 9, 18; composite**

2. 37 **1, 37; prime**

3. 48 **1, 2, 3, 4, 6, 8, 12, 16, 24, 48; composite**

4. 116 **1, 2, 4, 29, 58, 116; composite**

5. 138 **1, 2, 3, 6, 23, 46, 69, 138; composite**

6. 211 **1, 211; prime**

Find the prime factorization of each integer.

7. 52 $2^2 \cdot 13$

8. -96 $-1 \cdot 2^5 \cdot 3$

9. 108 $2^2 \cdot 3^3$

10. 225 $3^2 \cdot 5^2$

11. 286 $2 \cdot 11 \cdot 13$

12. -384 $-1 \cdot 2^7 \cdot 3$

Factor each monomial completely.

13. $30d^5$
$2 \cdot 3 \cdot 5 \cdot d \cdot d \cdot d \cdot d \cdot d$

14. $-72mn$
$-1 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot m \cdot n$

15. $81b^2c^3$
$3 \cdot 3 \cdot 3 \cdot 3 \cdot b \cdot b \cdot c \cdot c \cdot c$

16. $145abc^3$
$5 \cdot 29 \cdot a \cdot b \cdot c \cdot c \cdot c$

17. $168pq^2r$
$2 \cdot 2 \cdot 2 \cdot 3 \cdot 7 \cdot p \cdot q \cdot q \cdot r$

18. $-121x^2yz^2$
$-1 \cdot 11 \cdot 11 \cdot x \cdot x \cdot y \cdot z \cdot z$

Find the GCF of each set of monomials.

19. 18, 49 **1**

20. 18, 45, 63 **9**

21. 16, 24, 48 **8**

22. 12, 30, 114 **6**

23. 9, 27, 77 **1**

24. 24, 72, 108 **12**

25. $24fg^5, 56f^3g$ **8fg**

26. $72r^2s^2, 36rs^3$ **$36rs^2$**

27. $15a^2b, 35ab^2$ **5ab**

28. $28m^3n^2, 45pq^2$ **1**

29. $40xy^2, 56x^3y^2, 124x^2y^3$ **$4xy^2$**

30. $88c^3d, 40c^3d^2, 32c^2d$ **$8c^2d$**

GEOMETRY For Exercises 31 and 32, use the following information.
The area of a rectangle is 84 square inches. Its length and width are both whole numbers.

31. What is the minimum perimeter of the rectangle? **38 in.**

32. What is the maximum perimeter of the rectangle? **170 in.**

RENOVATION For Exercises 33 and 34, use the following information.
Ms. Baxter wants to tile a wall to serve as a splashguard above a basin in the basement. She plans to use equal-sized tiles to cover an area that measures 48 inches by 36 inches.

33. What is the maximum-size square tile Ms. Baxter can use and not have to cut any of the tiles? **12-in. square**

34. How many tiles of this size will she need? **12**

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Table of Contents Pearson Education 5 Math Answers

1. Understanding the eBook Pearson Education 5 Math Answers
    - The Rise of Digital Reading Pearson Education 5 Math Answers
    - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Education 5 Math Answers
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Pearson Education 5 Math Answers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Education 5 Math Answers
    - Personalized Recommendations
    - Pearson Education 5 Math Answers User Reviews and Ratings
    - Pearson Education 5 Math Answers and Bestseller Lists
5. Accessing Pearson Education 5 Math Answers Free and Paid eBooks
    - Pearson Education 5 Math Answers Public Domain eBooks
    - Pearson Education 5 Math Answers eBook Subscription Services
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